

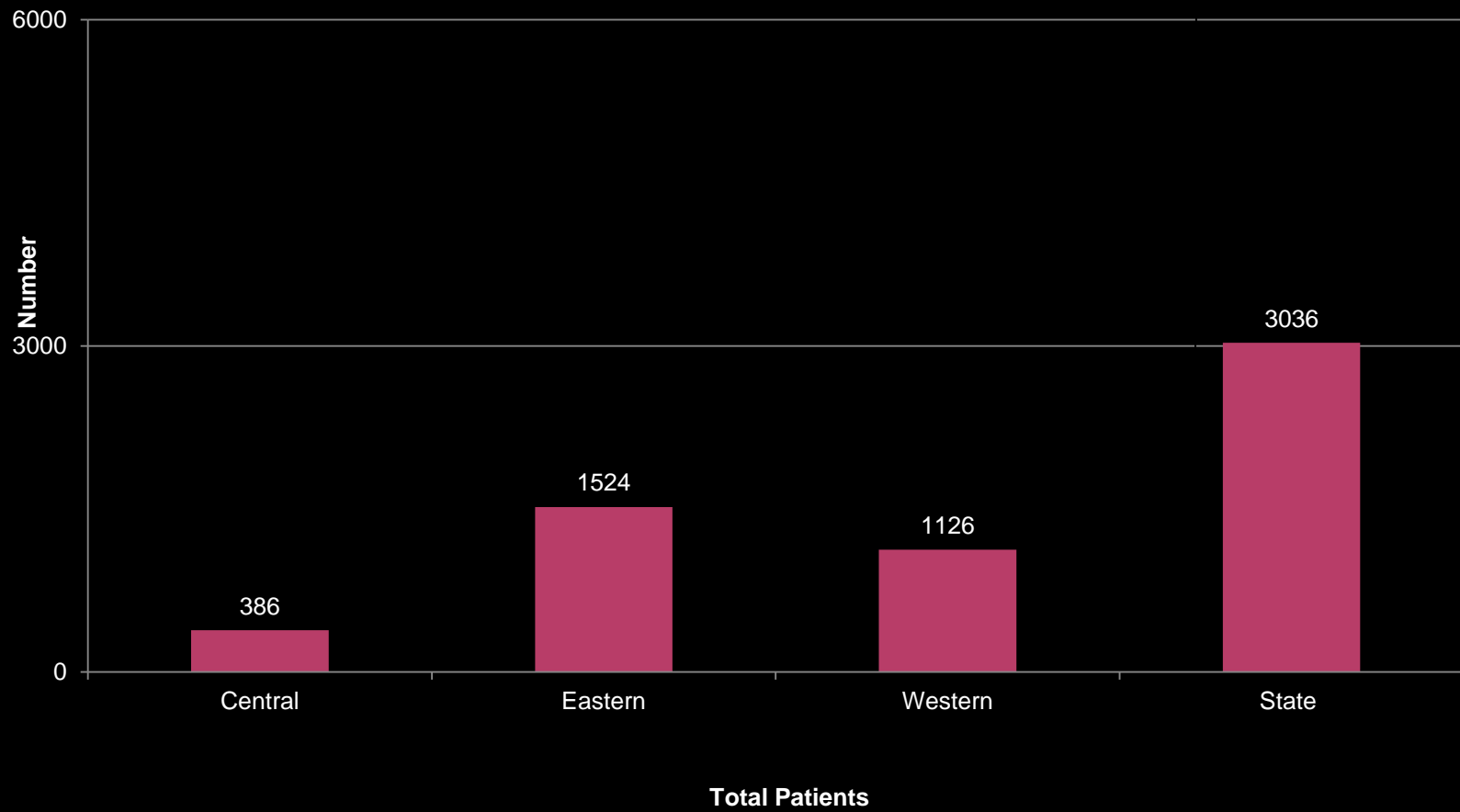
A faint, stylized background image of a person's face, possibly a medical professional, is visible on the left side of the slide.

State Trauma Care Committee Report

May 11, 2011

**Montana Trauma Registry
January 1 – December 31, 2010**

Total Patients Year 2010



Central Region Facilities

Fort Benton - Missouri River Medical Center	5
Browning - PHS Indian Hospital	0
White Sulphur Springs - Mountain View Med Center	5
Havre - Northern Montana Hospital	58
Townsend - Broadwater Health Center	0
Shelby - Marias Medical Center	5
Choteau - Teton Medical Center	4
Cut Bank - Northern Rockies Medical Center	0
Conrad - Pondera Medical Center	16
Chester - Liberty County Hospital	1
Great Falls - Benefis Health Care	292
Helena - St. Peter's Hospital	0

Eastern Region Facilities

Ennis - Madison Valley Hospital	15
Livingston Memorial Hospital	38
Sheridan - Ruby Valley Hospital	14
Forsyth - Rosebud Health Care Center	4
Roundup Memorial Hospital	20
Lewistown - Central Montana Hospital	35
Scobey - Daniels Memorial Hospital	0
Culbertson - Roosevelt Memorial Medical Center	22
Harlowton - Wheatland Memorial Hospital	14
Malta - Phillips County Medical Center	3
Red Lodge - Beartooth Hospital & Health Center	33
Plentywood - Sheridan Memorial Hospital	6
Columbus - Stillwater Community Hospital	6
Sidney Health Center	22
Terry - Prairie Community Hospital	5
Wolf Point - Trinity Hospital	20
Poplar - Northeast Montana Health Services	20
Glasgow - Frances Mahon Deaconess Hospital	2
Big Timber - Pioneer Medical Center	5
Hardin - Big Horn County Memorial Hospital	6
Crow Agency - PHS Indian Hospital	114
Bozeman Deaconess Hospital	194
Billings - Billings Clinic	514
Billings - Saint Vincent Healthcare	393
Circle - McCone County Health Center	0
Lame Deer Clinic	3
Colstrip Medical Clinic	16

Total

1524

Western Region Facilities

Plains - Clark Fork Valley Hospital	8
Polson - St. Joseph Hospital	31
Anaconda - Community Hospital of Anaconda	20
Hamilton - Marcus Daly Memorial Hospital	9
Dillon - Barrett Hospital	42
Superior - Mineral County Hospital	12
Ronan - St. Luke Community Hospital	34
Deer Lodge - Powell County Memorial Hospital	24
Libby - St. John's Lutheran Hospital	0
Whitefish - North Valley Hospital	65
Philipsburg - Granite County Medical Center	12
Kalispell Regional Hospital	362
Missoula - Community Medical Center	69
Butte - St. James Healthcare	72
Missoula - St. Patrick Hospital	366
Total	1126

2010 Patient YTD Demographics

AGE

74% ages 10-64

29% > 55 yrs of age

8% < 10 of age

19% \geq 65 of age

RACE

78% White

2% Other

16% Native

4% ND

GENDER

65% Male

34% Female

<1% ND

2010 Patient Demographics

91%

Blunt

6%

Penetrating

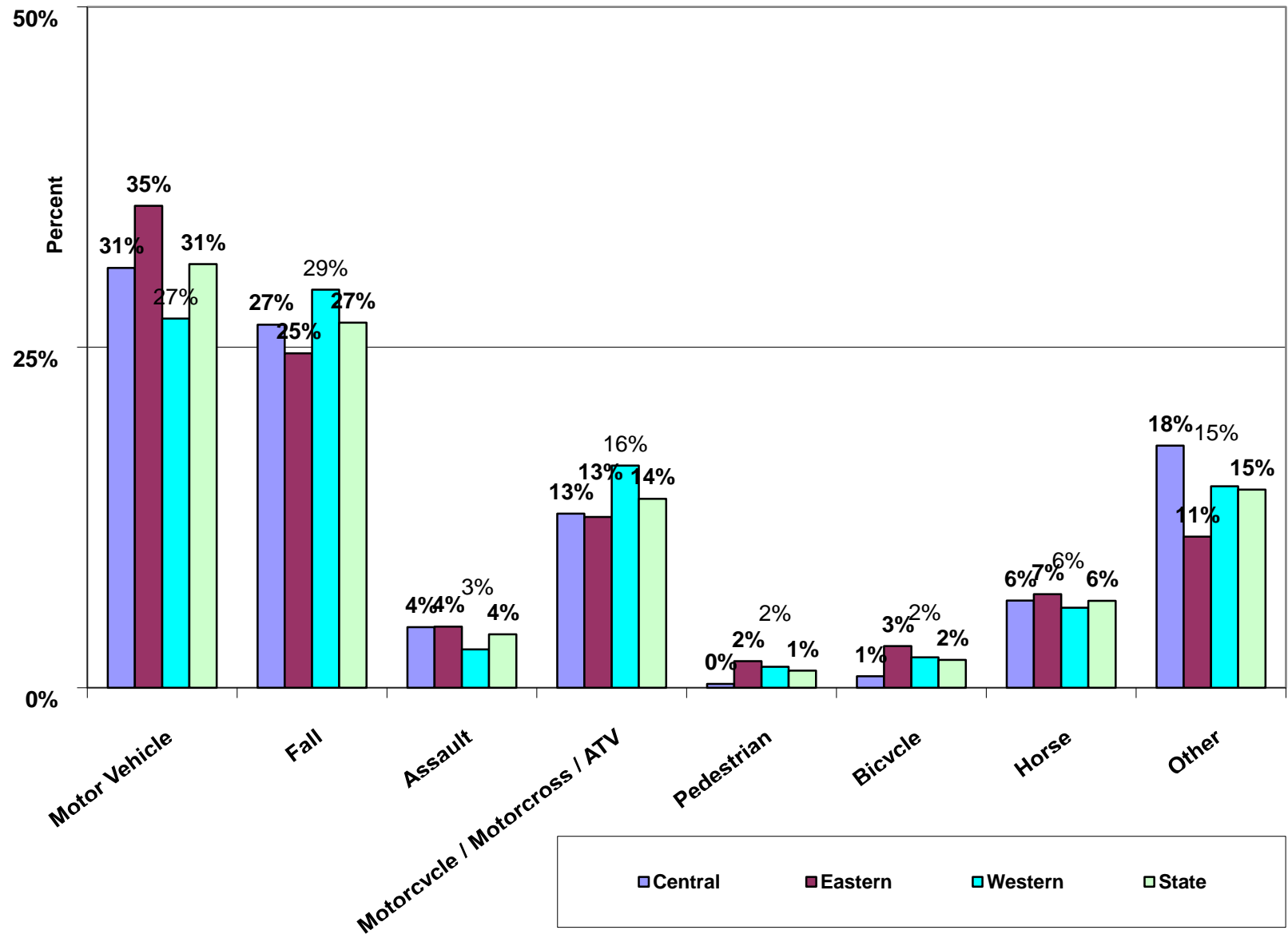
2%

Burns

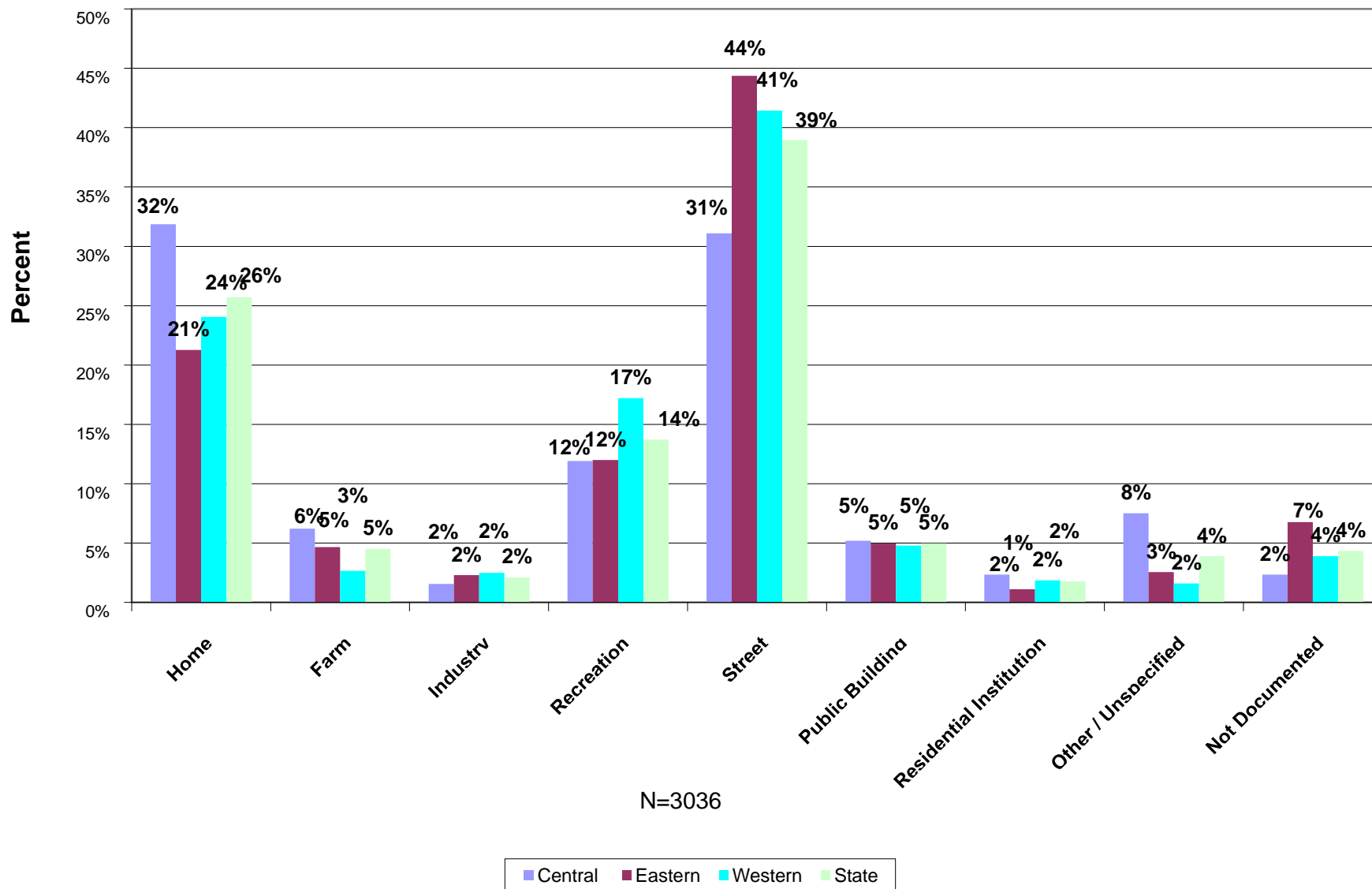
1%

Anoxia

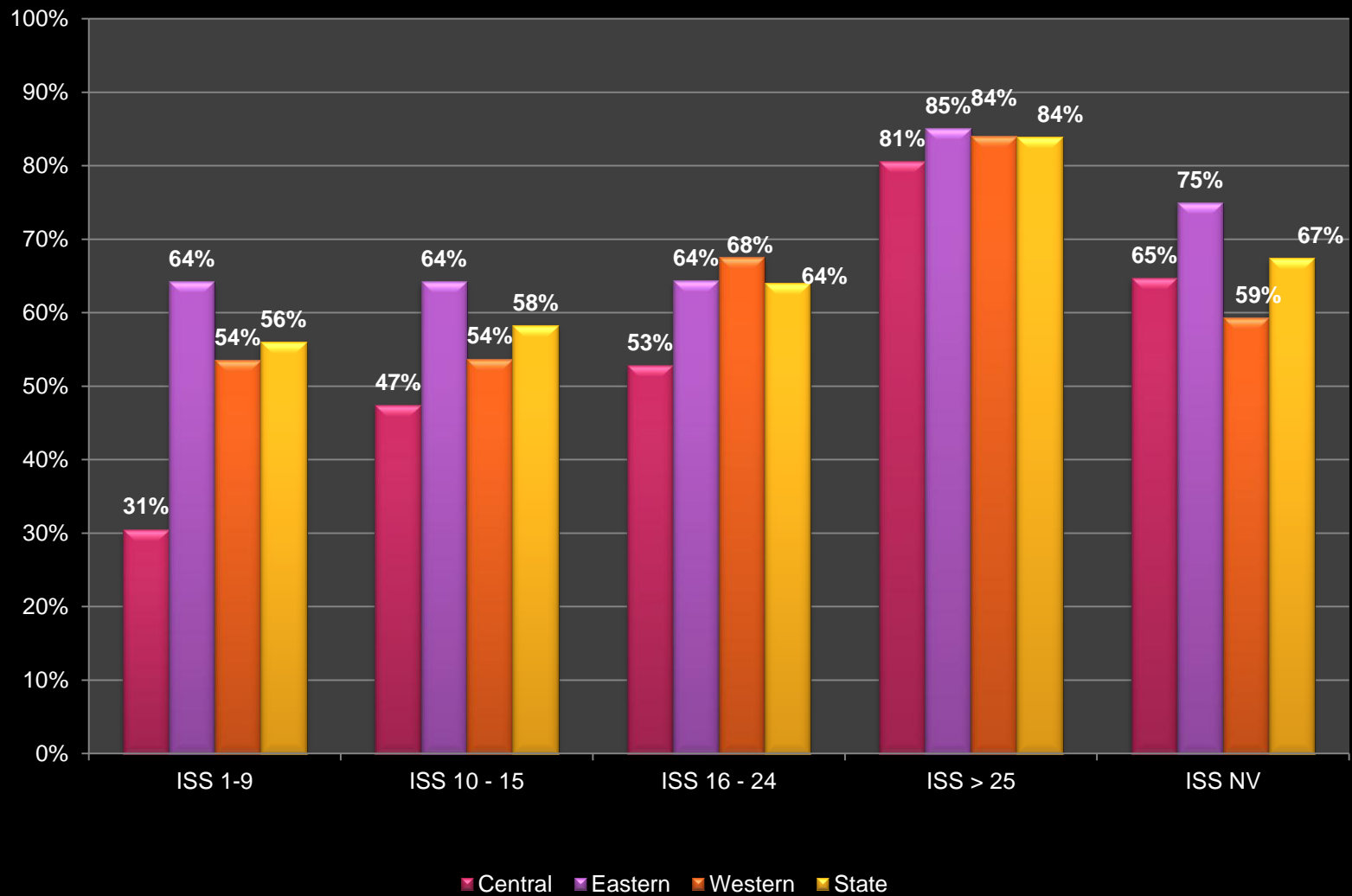
Blunt Causes



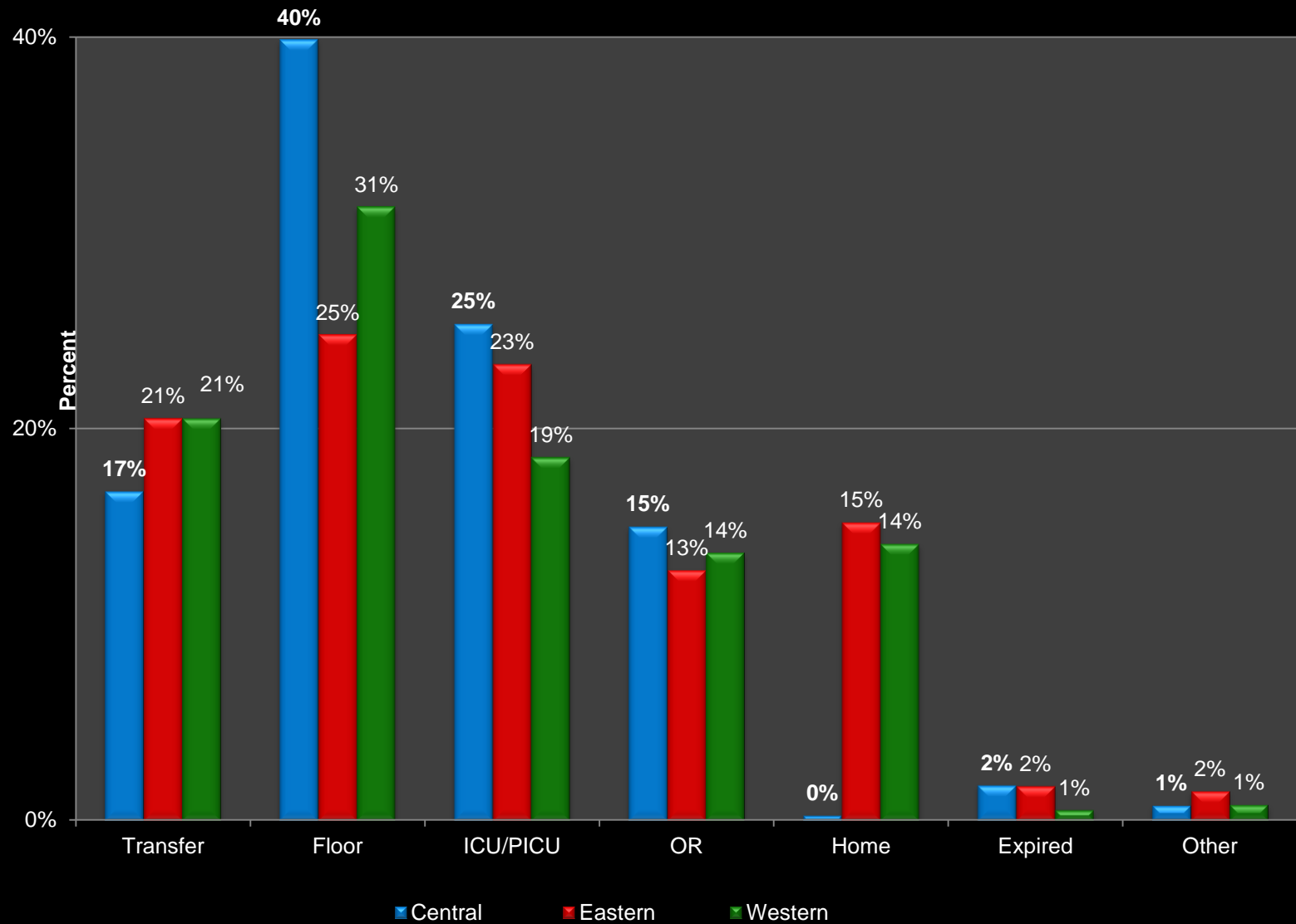
Location by Region



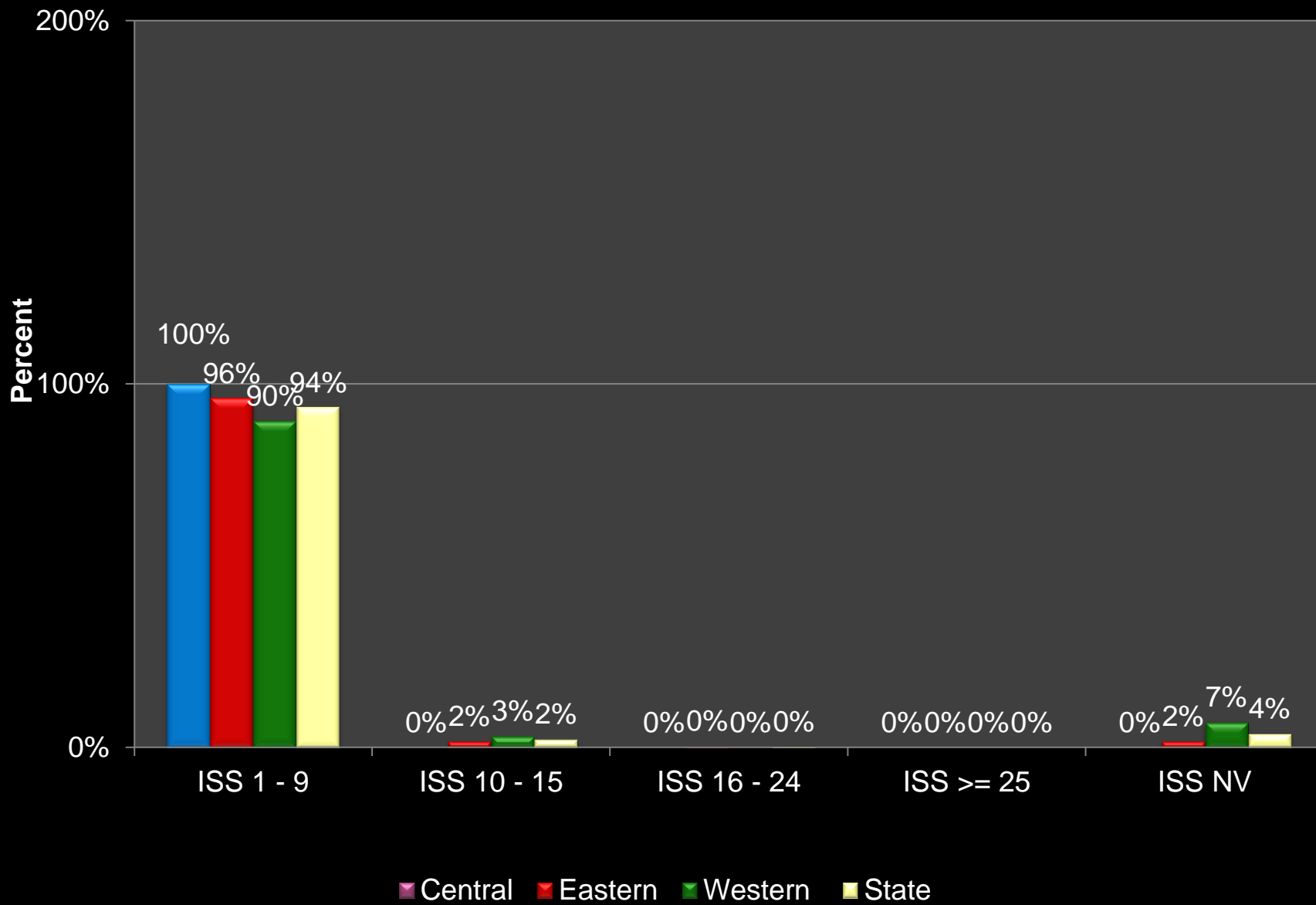
Trauma Team Activations by ISS



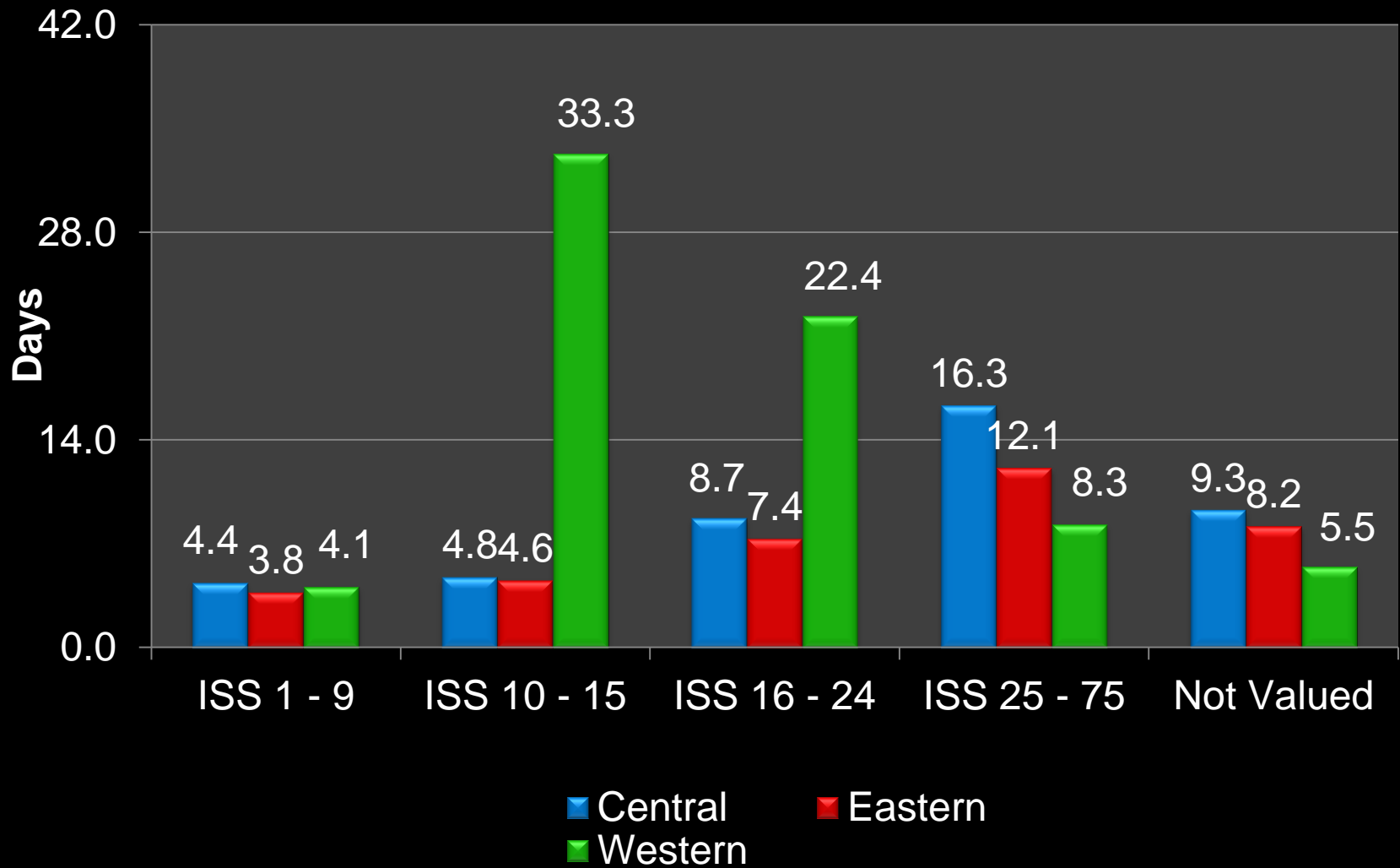
ED Disposition



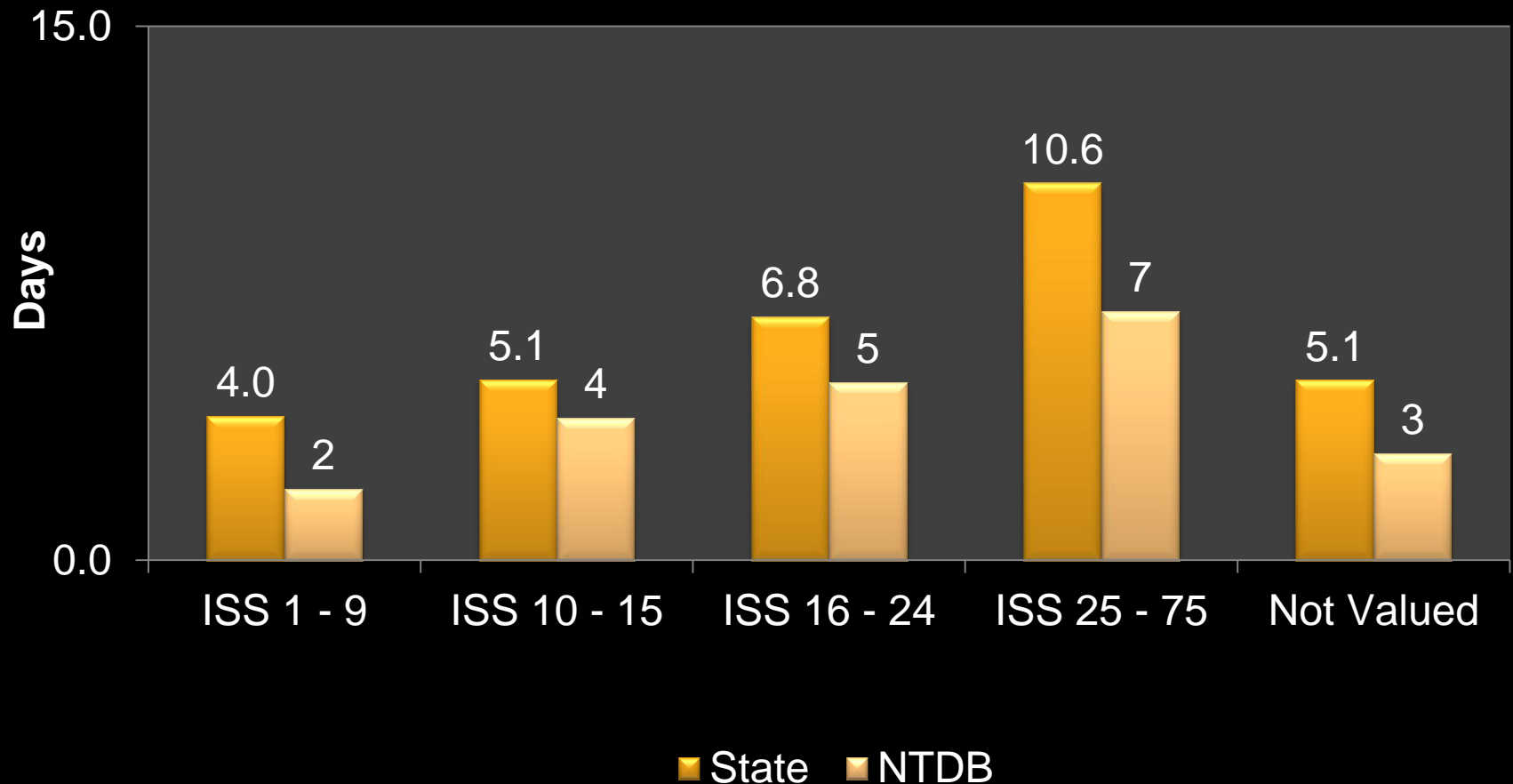
ED to Home By ISS



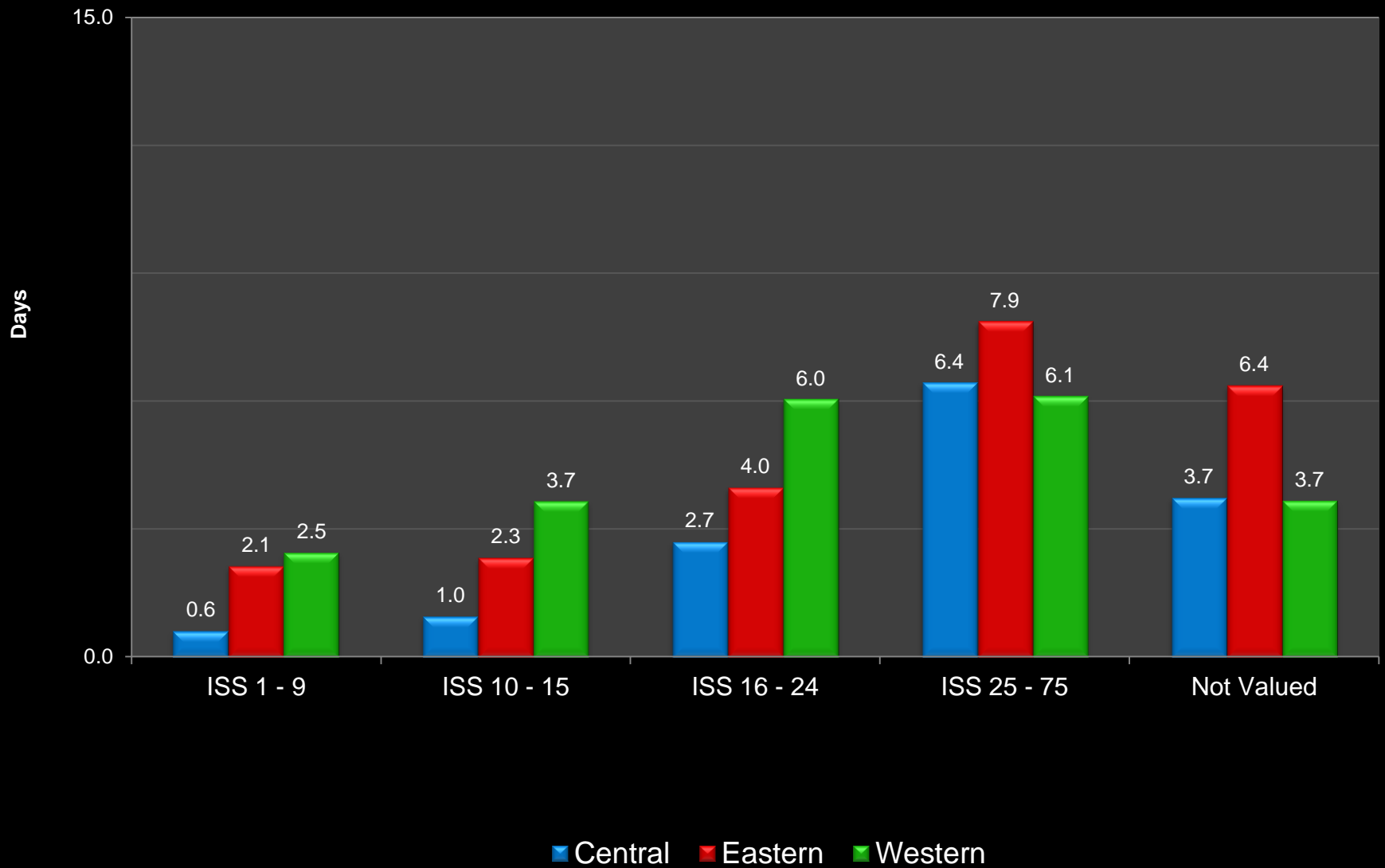
Avg. Hospital LOS by Region



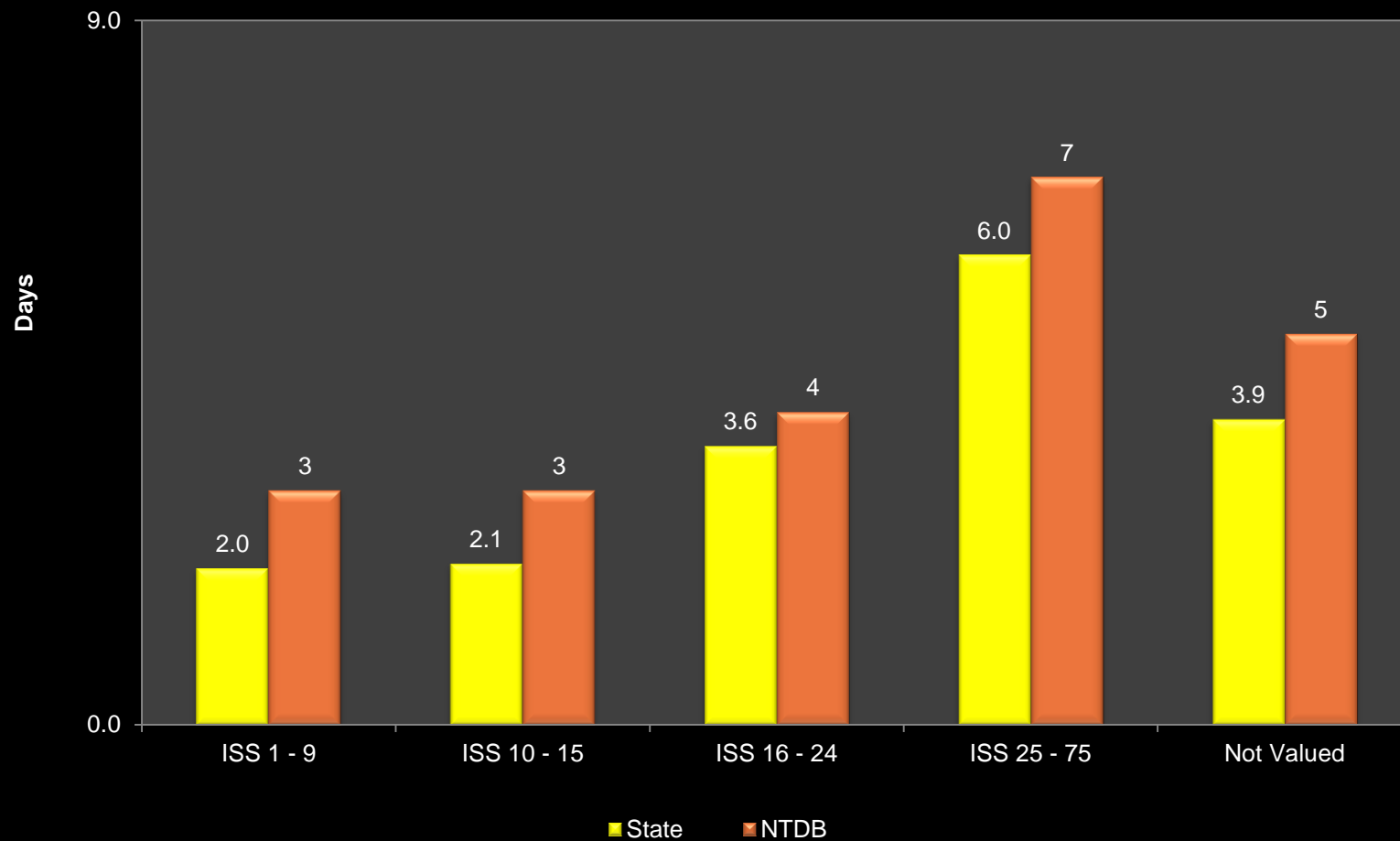
Avg. Hospital LOS (Comparing State and National Trauma Registry)



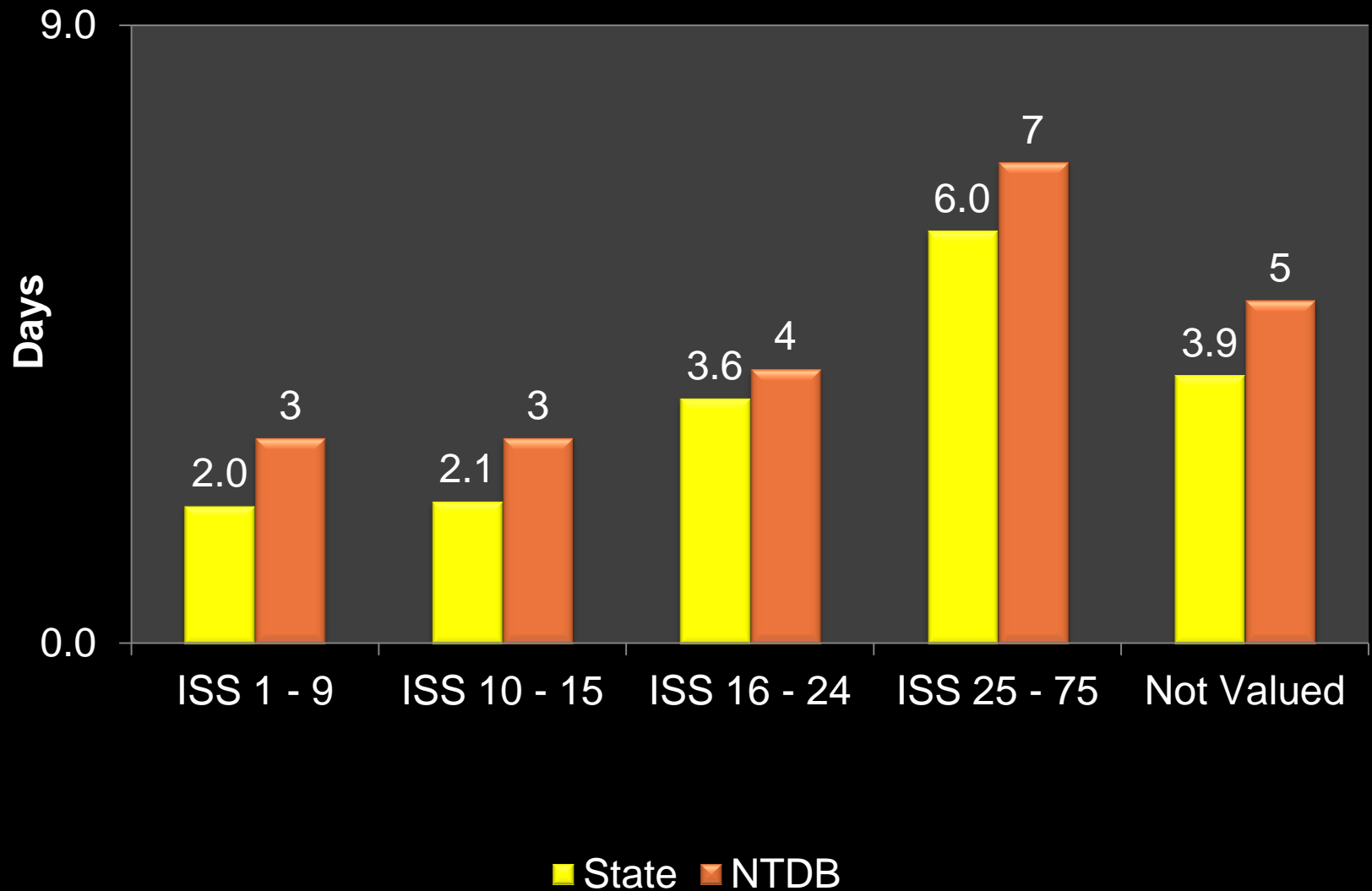
Avg. ICU LOS by Region



Avg. ICU LOS (Comparing State and National Trauma Registry)



Avg. ICU LOS (Comparing State and National Trauma Registry)



*Fatalities N= 121

Type of Injury	#	Type of Injury	#
MVC (30%)	36	Hanging	6
Falls (24%)	29	Farm/Machine	3
MCC/ATV (10%)	12	Skiing	2
SIGSW	9	Pedestrian	7
AccGSW	2	Burns	2
Environmental Assoc	2	Drowning	4
Assault	4	Horse Related	2
Crush	1		

Fatalities

MVC : 36

Restraint

12

No Restraint

23

MCC/ATV : 12

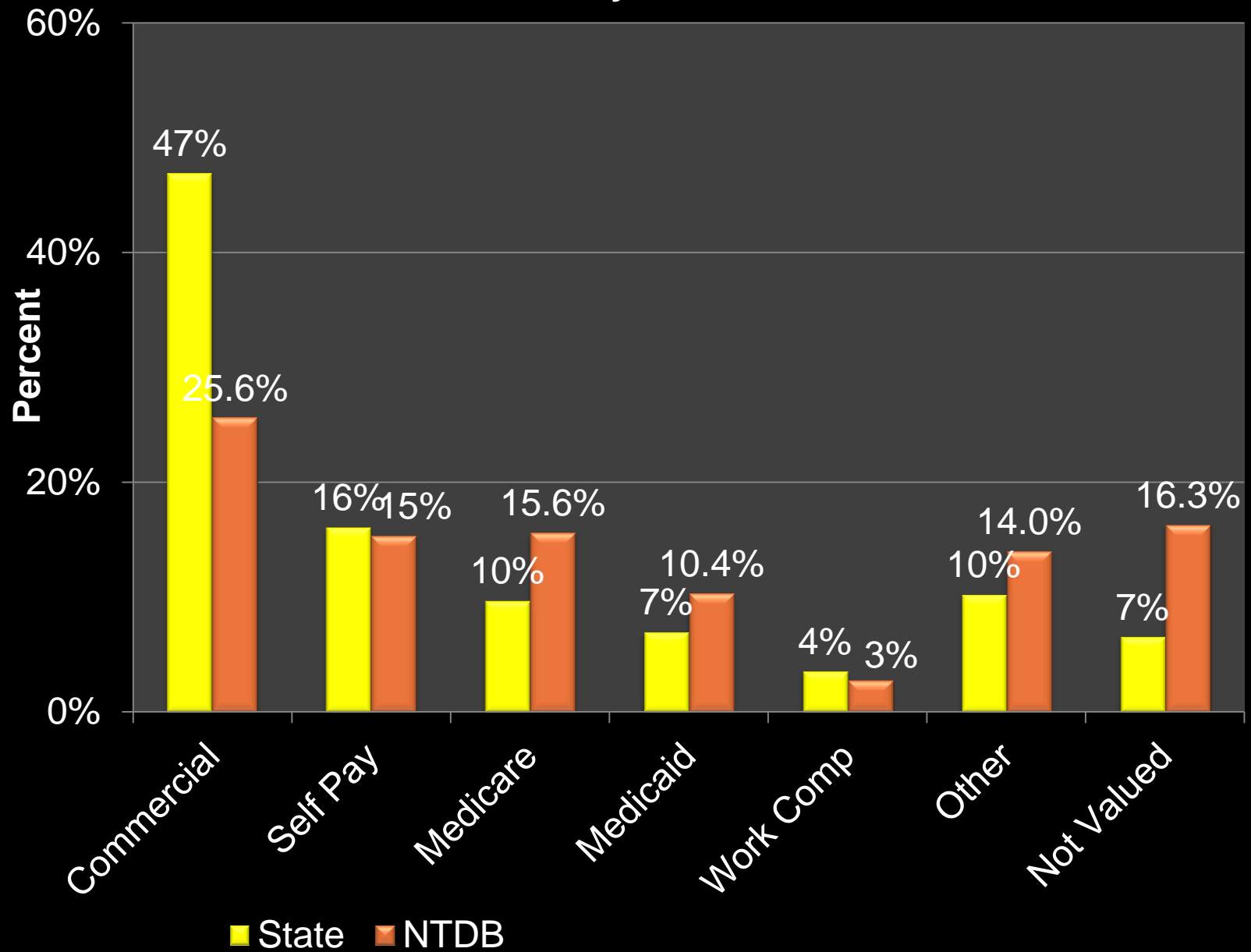
Helmet

5

No Helmet

7

Payors



Performance Indicators

Year 2010

PI # 1: Trauma Patients Transp by EMS W/O Trip Report in the Medical Record

Prehospital transports

Central: 268

Ground Ambulance: 247

+ Report: 156 (63%)

No Report: 91 (37%)

Eastern: 1079

Ground Ambulance: 1044

+ Report: 823 (79%)

No Report: 221 (21%)

Western: 812

Ground Ambulance: 704

+ Report: 469 (66%)

No report: 235 (34%)

PI # 1 cont'd

Ground Ambulance

Inter-facility Transfers w/out trip reports

Central 127 total transfers:

Ground transfers = 55

w /trip report =20 (36%)

w/o trip report= 35 (64%)

Flight transfers = 72

PI # 1 cont'd

Ground Ambulance Interfacility Transfers w/out trip reports

- Eastern = 387 total transfers

Ground ambulance = 182

w/trip report = 99 (54%)

w/o trip report = 83 (46%)

Flight transfers = 205

PI # 1 cont'd

Ground Ambulance Interfacility Transfers w/out trip reports

- Western = 178 total transfers

Ground ambulance = 87

w/trip report 53 (61%)

w/o trip report 34 (39%)

Flight transfers = 91

PI # 2: Transferred Trauma Patients w/ISS \geq 15 & time at first facility \geq 6 hrs

**8 YTD transfers w/ISS \geq 15 & time
@ facility \geq 6 hrs**

**3 transferred from ED: w/ weather
issues**

**5 transfers who were admitted as
inpatients @referring facility/ then
transferred to Regional Trauma
Centers**

PI #3: Trauma patients with ISS \geq 15 and ED time \geq 2 hours

Level II facilities excluded

**YTD: 188 trauma patients needing
transfer**

– YTD Average ED time to transfer,

Area TH: 3.2 hr

Community TH: 3.1 hr

Trauma Receiving Facility: 3.55 hr

– YTD Average ISS: 21

PI # 4:

Trauma patients who died with an ISS \leq 15

Central Region N= 6

1 “undercoded” died, lack of complete dx

**4 elderly patients w/low ISS,
+++comorbidities**

1 Burn patient

PI # 4:
Trauma patients who died with an ISS \leq 15

Eastern Region N=6

5 “undercoded” died ED, lack of complete dx

1 elderly w/low ISS, +++ comorbidities

PI # 4:

Trauma patients who died with an ISS \leq 15

Western Region N=11

6 “undercoded” died ED, lack of complete dx

3 elderly w/low ISS, +++comorbidities

2 fall w/CHI: ON COUMADIN/PLAVIX,